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**Notice of Allowability**

Application No.

10/766,595

Examiner

Devin Hanan

Applicant(s)

CAZZANIGA, MARIO

Art Unit

3745

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment dated 8/22/2005.
2. ☒ The allowed claim(s) is/are 1 and 3-8.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>09022005</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>8/22/2005</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                                | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|   | 9. <input type="checkbox"/> Other ____.  |

### **STATEMENT OF EXAMINER'S REASONS FOR ALLOWANCE**

Applicant's amendments, see claims, filed 8/22/2005, with respect to claim 1 have been fully considered and are persuasive. The 35 USC 102 and 112 2<sup>nd</sup> paragraph rejection of claim 1 has been withdrawn. Changing the dependence of claim 5 to depend from claim 1 has overcome the rejection. The 35 USC 112 2<sup>nd</sup> paragraph rejection of claim 5 has been withdrawn. Changes in the claims to replace the trademark name Kevlar and listing the full chemical name for PVC have corrected the deficiencies in the claims.

The following is an examiner's statement of reasons for allowance: The instant invention is deemed to be directed to an unobvious improvement over the patent to Cholakis (U.S. Patent 4,512,720). Cholakis discloses a rotor to be connected to a shaft (col. 2 lines 58-62) made of two different plastics of different hardness, with the radial tabs being flexible (col. 2 lines 1-10), but does not disclose that the material is a mixture of polychloroprene, nitrile, polyvinyl chloride and aramidic fiber. In the specification the applicant states the materials are critical because the mixture results in a rotor with toughness of metallic cores and the lightness and wearproof of synthetic materials (spec. page 3 lines 10-16).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Prior Art***

The patent to Bland (U.S. Patent 4,592,733) is cited for its teaching of a rotor for a cooling pump that has flexible tabs (figure 2, 134).

The patent to Blake et al. (U.S. Patent 5,145,320) is cited for its teaching of a rotor for a rotor of two different materials which includes fibers (col. 2, 46-64).

The patent to Bart (U.S. Patent 2,776,254) is cited for its teaching of a rotor for a including neoprene (figure 3).

The patent to Izumi (U.S. Patent 4,994,222) is cited for its teaching of a engineered plastics which are replacing metals (col. 1 lines 15-21).

The patent to Wicen (U.S. Patent 5,165,881) is cited for its teaching of the making of a rotor of two different materials (figure 5).


### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devin Hanan whose telephone number is 571-272-6089. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look can be reached on 571-272-4820. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Devin Hanan  
Patent Examiner  
Art Unit 3745



EDWARD K. LOOK  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3700

9/6/05